

Claims

1. Use of mineral fibres or filaments and E glass fibres with a SiO_2 rate of more than 50% by weight, in the form of a textile fabric, as biocide-free antifouling agent for protecting submerged structures from damage due to adhesion and multiplication by harmful organisms living in the water in seawater or in industrial water systems, whereby the surface of the antifouling agents is formed predominantly by fine basalt fibres and the fabric is designed as interlaid scrim, woven fabric, knitted fabrics or braiding, a fabric designed by the multiaxial technique or a fleece.
2. The use as claimed in Claim 1, characterised in that the fabric is a fishing net, in particular a knotless, warp-knitted fishing net for aquaculture, or an antifouling coating, which is placed on the substrate to be protected or respectively on underwater surfaces to be protected.
3. The use as claimed in either of Claims 1 or 2, characterised in that the textile fabric by means of adhesives or other chemically adhesive products is applied to the substrate or respectively to the underwater surface to be protected or the textile fabric, to the substrate to be protected or respectively to the underwater surface by sheathing with tightly woven fabrics or strips or respectively by braiding.
4. The use as claimed in any one of Claims 1 to 3, characterised in that basalt fibres or basalt filaments are used as mineral fibres or filaments.
5. The use as claimed in any one of Claims 1 to 4, characterised in that the fabric has edge protection along the edges of the fabric.
6. The use as claimed in any one of Claims 1 to 5, whereby the woven fabric comprises warp and weft threads, in each case basalt fibres.
7. The use as claimed in any one of Claims 1 to 6, whereby roving and yarns with a fineness of 50 to 3000 tex, in particular of 50 to 500 tex are used for the woven fabric and the woven fabrics produced from the yarns have a surface weight of 70 to 1500g/m², in particular of 90 to 200g/m².

8. The use as claimed in any one of Claims 1 to 7, whereby the woven fabric comprises several coats or layers and is fastened mechanically in terms of weaving technology with quilting seams, whereby the quilting seams are executed using a sewing cotton.

9. The use as claimed in any one of Claims 1 to 8, whereby the layers of the fabric by means of adhesion technology, in particular by means of welding adhesive tape and/or by means of adhesive powder, are connected to one another.

10. The use as claimed in any one of Claims 1 to 9, whereby the thread material comprises yarns/multiyarns.

11. The use as claimed in any one of Claims 1 to 10, whereby the thread material was subjected to a texturing process.

End of the certified translation

Moers, 10 May 2006

I, Pamela Lynn Green, authorized translator for the
Higher Regional Court of Düsseldorf, hereby certify
that this is a true and faithful translation of the original
document in the German language presented to me.
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